



Rack mount Eber 210/220/230



Quick Start Guide

Thank you for purchasing a Yawarra rack mount Eber.

Your package should contain:

- IRU rack mount Eber 210/220/230 server
- Universal hard drive mounting plate
- Cable kit

Optional Extras

- Extra memory module
(**Note:** The Eber 210 has 128MB RAM on board, and the Eber 220 and 230 have 256MB RAM on board)
- CF card (**Note:** The CF slot is located under the board)
- 12V 4A regulated power supply

Please read the following instructions to begin using your rack mount Eber.

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Things you will need

Tools

- Anti-static wrist strap
- 2mm hex key (supplied)
- Phillips No 1 screwdriver
- Posidrive No 2 screwdriver
- Small spanner or socket driver
- Compact Flash card reader (optional)
- Null modem cable (optional)

Materials

If you don't have them already, you'll need:

- Compact Flash Card and / or a 2.5" or 3.5" hard drive
- miniPCI card (optional) e.g. wireless adapter, VPN accelerator
- Power supply
- Operating system image

Instructions

Safety Note

The Eber boards, like all electronic equipment, are sensitive to damage from static discharge. To avoid damage caused by static discharge, it is strongly recommended that you use an anti-static wrist strap when handling the boards.

Note: The LEDs on some of the ethernet ports in the Eber 220 may remain on after the network connection is removed. This behaviour is normal for this board.

Install or remove a Compact Flash Card

To use your rack mount Eber you will need to have a suitable operating system installed, either on a CF card in the CF socket on the board, or a 2.5" or 3.5" hard drive (see below).

If your CF card does not already have an operating system installed, you can either mount the CF card in another machine (e.g. via a flash card reader or a CF to IDE adapter) and copy a boot image onto it, or pxe boot the board. The Eber boards support many operating systems including BSD, Linux and a number of proprietary operating systems.

1. Disconnect power
 - Set the power switch to off and disconnect power from the rear of the case
2. Remove the top cover
 - Using a Posidrive No 2 screwdriver, remove the five screws from the top of the rack mount Eber case and remove the top cover.
3. Remove the board
 - Using a 2mm hex key, remove the two hex screws from the front cover plate
 - Using a small spanner, remove the jack screws from the serial port and VGA port
 - Gently move the cover plate forward and down, leaving the LEDs connected to it
 - Disconnect the LEDs from the board by gently pulling upwards on the wires
 - **Note:** When reconnecting, the yellow and black cable goes closest to the rear of the case, and the black wire of each each pair goes to the left
 - Disconnect the 4-pin power plug from the right hand end of the board by firmly grasping it by both ends and pulling upwards
 - Using a Phillips No 1 screwdriver, remove the screws from the corners of the board
 - Remove the board by lifting at the rear and tilting upwards.

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4. Remove or install the Compact Flash card
 - Turn the board upside down
 - Insert the CF card into the slot on the underside of the board, pushing it in firmly to ensure a good connection
5. Reassemble the Eber, following the above instructions in reverse

Install a hard drive

The universal hard drive mounting plate included with your rack mount Eber is designed to take either a 2.5" laptop hard drive or a standard 3.5" hard drive.

1. Disconnect power
 - Set the power switch to off and disconnect power from the rear of the case
2. Remove the top cover
 - Using a Posidrive No 2 screwdriver, remove the five screws from the top of the rack mount Eber case and remove the top cover.
3. Install the hard drive
 - Using a Phillips No 1 screwdriver, remove the four screws from the corners of the hard drive mounting plate and lift the mounting plate out
 - Attach the mounting plate to the underside of the hard drive, using four screws suitable for your hard drive (not supplied)
 - Connect the appropriate hard drive cable (supplied) to the board. Place it under the mounting plate and fold it backward toward the rear of the case
 - Replace the mounting plate and insert the four screws into the corners
 - **3.5" hard drive only:** Connect the 4-pin power plug to the rear of the hard drive
 - Connect the IDE cable to the hard drive
3. Replace the cover and insert the case screws

Install a memory module (210/220 only)

Note: Due to height restrictions the Eber requires low profile memory modules, which may not be generally available from your local computer supplier.

1. Disconnect power
 - Set the power switch to off and disconnect power from the rear of the case
2. Remove the top cover
 - Using a Posidrive No 2 screwdriver, remove the five screws from the top of the rack mount Eber case and remove the top cover
3. Remove the cover plate
 - Using your 2mm hex key, remove the two hex screws from the front cover plate
 - Using a small spanner, remove the jack screws from the serial and VGA ports
 - Gently move the cover plate forward and down, leaving the LEDs connected to it
4. Install memory
 - Spread the locking tabs on the end of the memory slot
 - Push the memory firmly into the slot and re-engage the locking tabs
5. Reassemble the Eber, following the above instructions in reverse

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Install a miniPCI card (optional)

Insert your miniPCI card into the miniPCI slot at an angle of about 45° to the board. If you are installing a radio card, attach the u.fl end of the pigtailed to the connectors on the wireless card. Ensure that the card is firmly seated in the slot and then lay it onto the board, pressing down until the locking tabs on either side of the card click into place.

Connect to the serial console (optional)

If you want to configure your operating system via the console, you will need to connect to the serial port via a null modem cable, or you can plug in a keyboard and monitor.

Terminal emulator settings 19200 baud, 8 bits, no parity, 1 stop bit, no flow control.

Connecting a keyboard

1. Remove the top cover
2. Using the PS2 cable (supplied), connect the keyboard to one of the PS2 ends
Note: One end is for the keyboard, and one is for a mouse, but there's no way to tell between them except by trial and error
3. Connect the 8-pin plug on the PS2 cable to the pins on the bottom left-hand corner of the board.

Access the BIOS

You can access the BIOS via the serial console using CU or Tip under BSD or Linux. To access the BIOS using a Windows-based terminal emulator:

1. Plug in a keyboard, and either connect to the serial console or plug in a monitor (see above)
2. When prompted, press 'Delete' on the keyboard

More information

For more detailed instructions on using your rack mount Eber, please visit our website at www.yawarra.com.au and download the manufacturer's user guides for the boards.

Warning

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Contact us

Please feel free to contact us if you have any queries regarding your rack mount Eber.

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